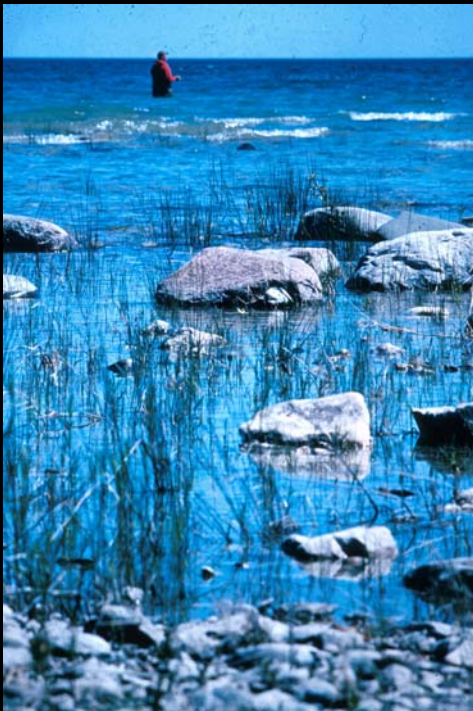




# Lake Michigan Fish Community Goal and Guiding Principles

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**Mark E. Holey**  
**U.S. Fish and Wildlife Service**  
**Green Bay, WI**

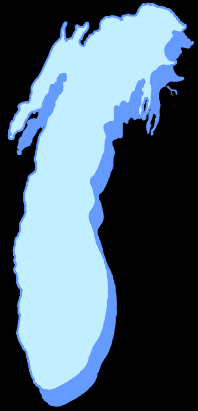


**The Lake Michigan fish community is a highly complex, biological system that requires a broader, ecological approach than offered by single species management**



To define objectives for  
the structure of each  
of the Great lakes fish  
communities and  
develop a means of  
measuring progress  
toward their  
achievement





# Goal Statements

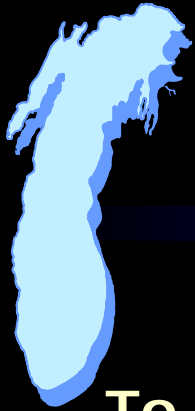




# Great Lakes Water Quality Agreement

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**To restore and maintain the  
chemical, physical, and  
biological integrity of the  
waters of the Great Lakes  
basin ecosystem**



# Joint Strategic Plan for Management of Great Lakes Fisheries

To secure fish communities, based on foundations of stable, self-sustaining stocks, supplemented by judicious plantings of hatchery-reared fish, and provide from these communities an optimum contribution of fish, fishing opportunities and associated benefits to meet needs identified by society for:

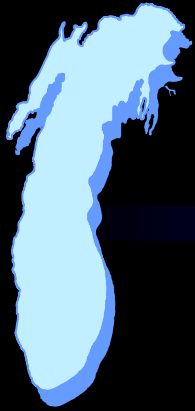
- WHOLESOME FOOD
- RECREATION
- EMPLOYMENT AND INCOME
- HEALTHY HUMAN ENVIRONMENT



# Lake Michigan Fish Community Objectives

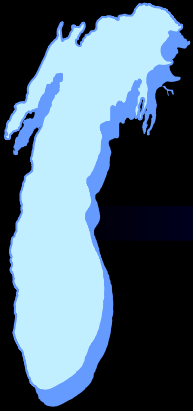
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**Restore and maintain the  
biological integrity of the fish  
community so that production  
of desirable fish is sustainable  
and ecologically efficient**



# Guiding Principles

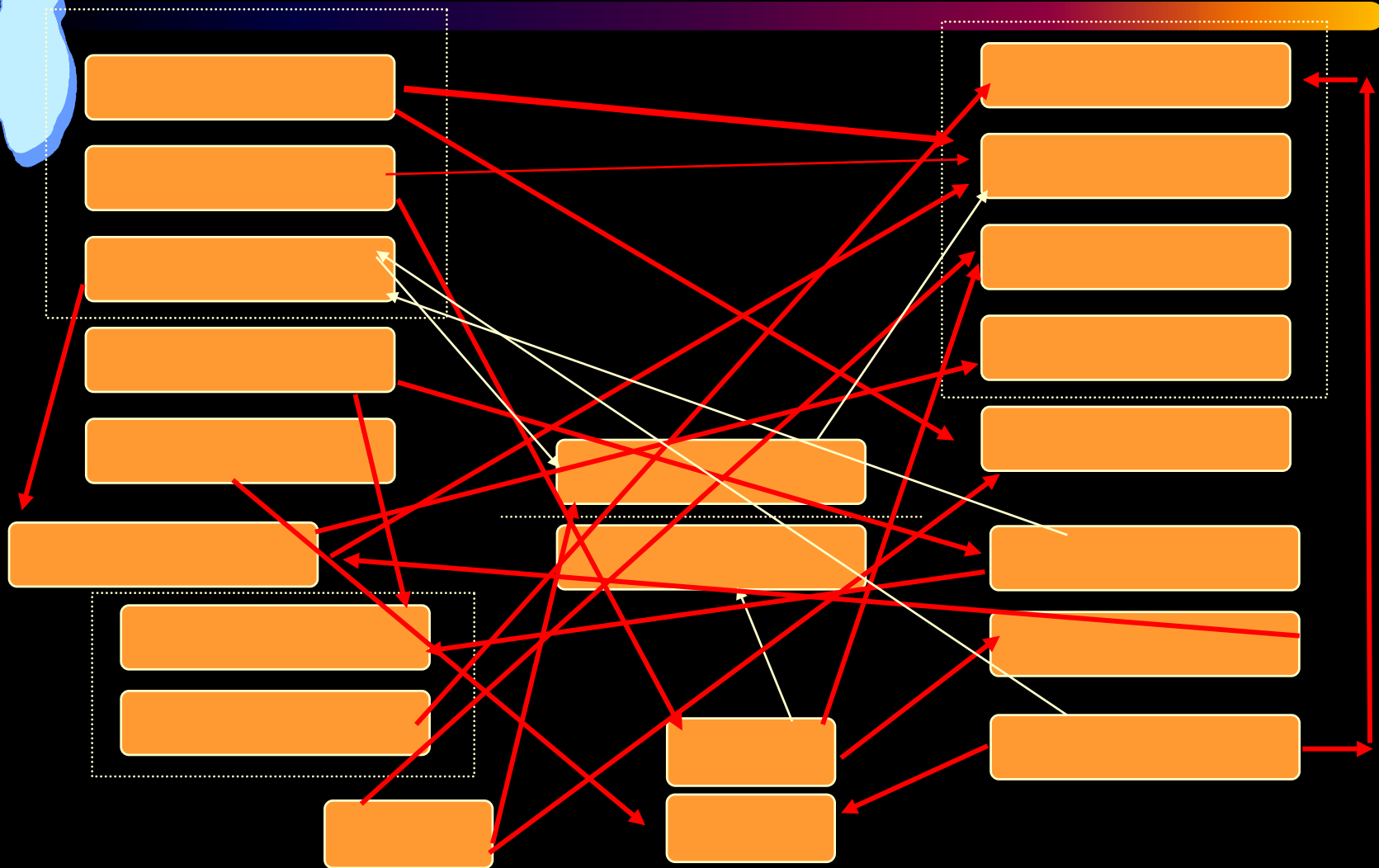
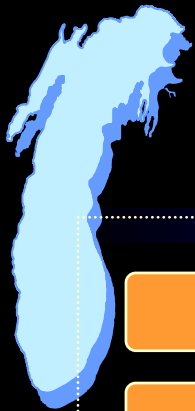




## Recognize limits of lake productivity



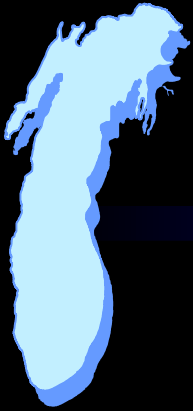
# Complex Foodweb





## Preserve and restore fish habitat





## Preserve native Species







# Enhance natural reproduction of native and desirable introduced fishes

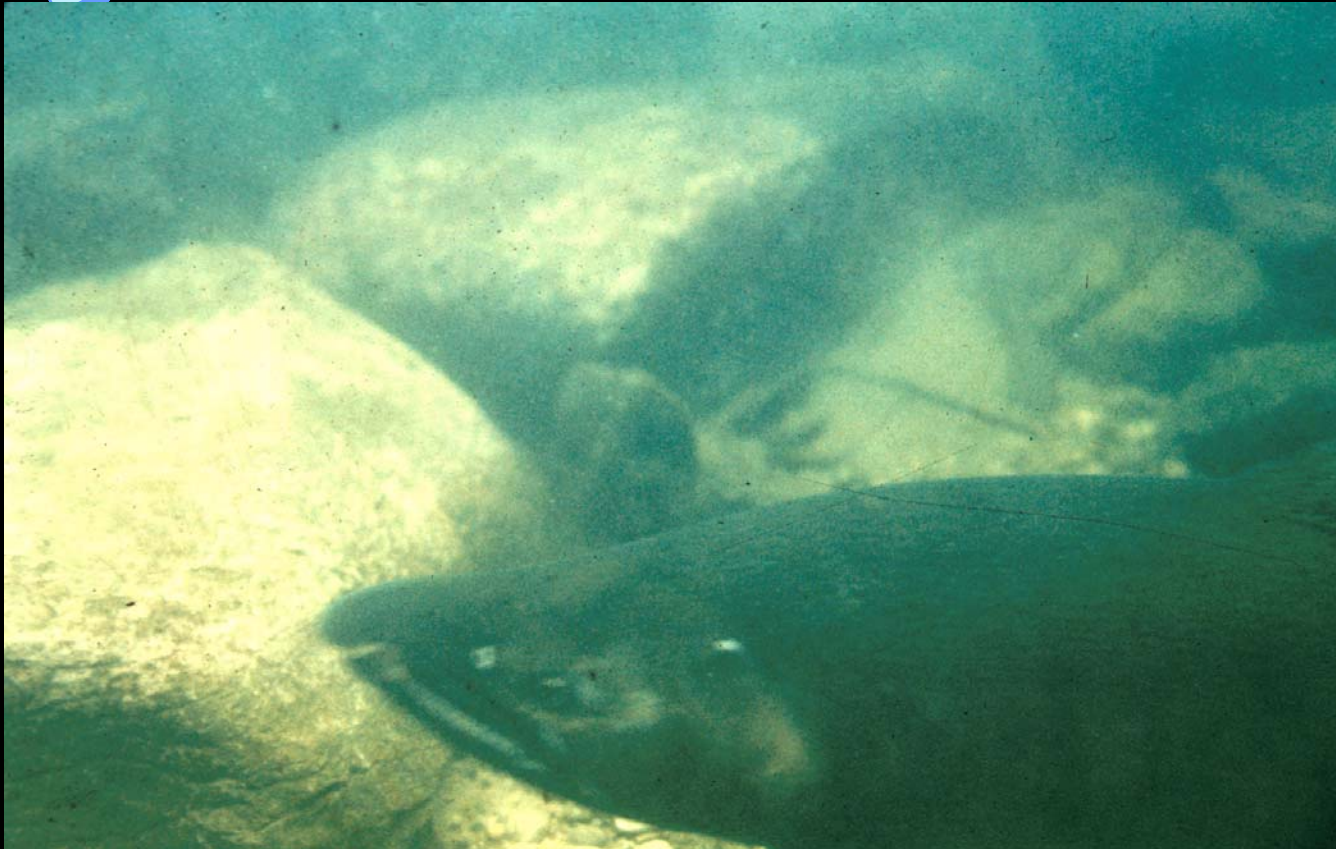




**Acknowledge the  
role of planted fish**



# Recognize naturalized species

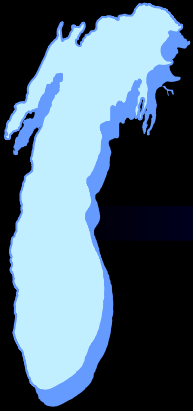






**Adopt the genetic  
stock concept**



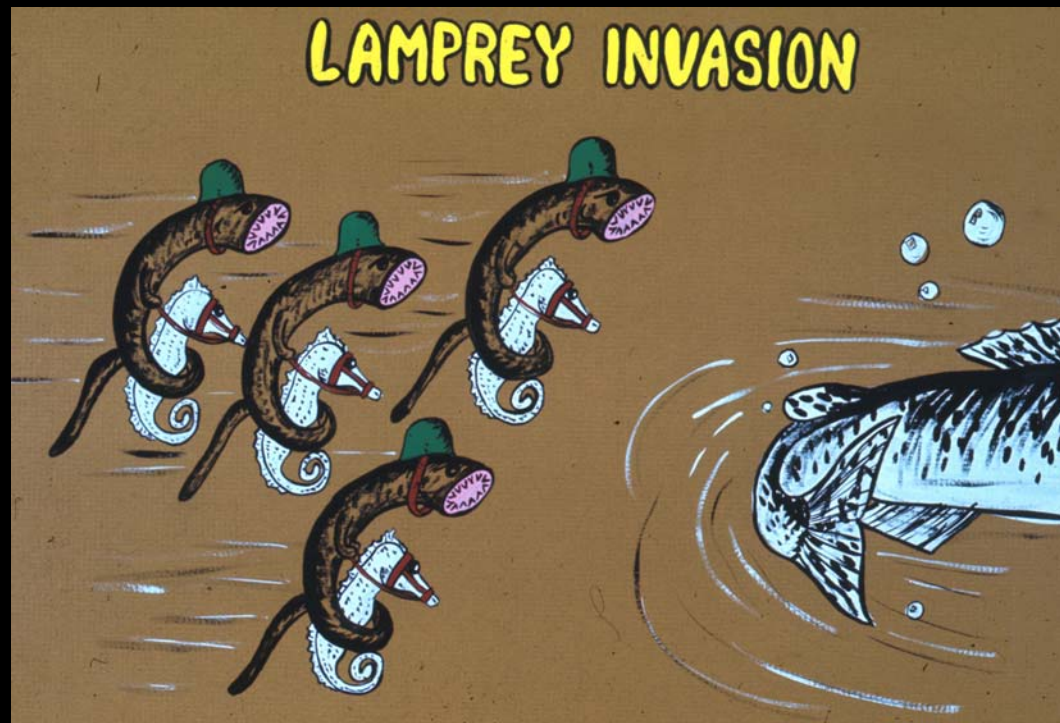


**Recognize that fisheries are  
an important cultural heritage**





# Prevent the unintentional introductions of exotic species





# Protect and enhance threatened and endangered species



# Planktivore Objective



**Maintain a diversity of planktivore (prey) species at population levels matched to primary production and to predator demands.**

**Expectations are for a lakewide planktivore biomass of 0.5 to 0.8 billion kg. (1.2 - 1.7 billion lb.)**



# Salmonine Objectives (Salmon and Trout)



- Establish diverse salmonine community capable of sustaining an annual harvest of 2.7 to 6.8 million kg (6 to 15 million lb.) of which 20 - 25% is lake trout
- Establish self-sustaining lake trout populations

